

Clinical Trial Protocol

Iranian Registry of Clinical Trials

31 May 2026

Effect of intravenous vitamin C on the level of CRP in Hemodialysis patients

Protocol summary

Summary

This is a double blind placebo-controlled clinical trial to evaluate the effect of vitamin C on CRP and phosphorus levels in hemodialysis patients. 60 hemodialysis patients who meet inclusion criteria and don't have exclusion criteria randomly divided into two equal groups. 1- Intervention group who receive vial vit C 500mg/5cc intravenously. 2- Control group who receive 5cc normal saline intravenously. Each group receives its regimen at the end of hemodialysis 3 times a week for a period of 8 weeks. After this time period 10cc fasting venous blood sample will be taken from the patients before hemodialysis in order to compare CRP, phosphorus, calcium, oxalate, albumin, cholesterol, hemoglobin, hematocrit and parathyroid hormone levels to its level at the beginning of the study

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138904224365N1**

Registration date: **2010-06-22, 1389/04/01**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2010-06-22, 1389/04/01

Registrant information

Name

Afshin Gholipour Baradari

Name of organization / entity

Mazandaran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 11 3326 1245

Email address

gholipourafshin@mazums.ac.ir

Recruitment status

Recruitment complete

Funding source

Mazandaran University of Medical Sciences

Expected recruitment start date

2010-06-22, 1389/04/01

Expected recruitment end date

2010-08-22, 1389/05/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of intravenous vitamin C on the level of CRP in Hemodialysis patients

Public title

Effect of intravenous vitamin C on the level of CRP and phosphorus in Hemodialysis patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: signing informed consent, being under hemodialysis at least for 6 months prior to the study, being under hemodialysis 3 times a week, age between 20&70 years old Exclusion criteria: refusal at any time to continue the study, history of Infectious diseases and hospitalization within 2 months prior to the trial, history of vit E, vit C, alcohol & oil fish consumption within 2 months prior to the trial, History of renal transplantation, history of immunosuppressive drugs consumption within 2 months prior to the trial, history of statins and aspirin use, history of liver disease or malignancy, getting Systemic disease during the study

Age

From **20 years** old to **70 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Double blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Mazandaran University of Medical Sciences

Street address

Mazandaran University of Medical Sciences, Moallem Square

City

sari

Postal code

46175866

Approval date

2010-07-07, 1389/04/16

Ethics committee reference number

89-54

Health conditions studied**1****Description of health condition studied**

hemodialysis

ICD-10 code

Z49.1

ICD-10 code description

Extracorporeal dialysis

Primary outcomes**1****Description**

serum CRP

Timepoint

before intervention, two months after the intervention

Method of measurement

mg/l-laboratory kit

Secondary outcomes**1****Description**

hemoglobin

Timepoint

before intervention, two months after the intervention

Method of measurement

mg/dl , Laboratory kit

2**Description**

cholesterol

Timepoint

before intervention, two months after the intervention

Method of measurement

mg/dl , Laboratory kit

3**Description**

Phosphorus

Timepoint

before intervention, two months after the intervention

Method of measurement

mgr/dl ,Laboratory kit

Intervention groups**1****Description**

Intervention group receives vial vit C 500mg/5cc intravenously at the end of hemodialysis 3 times a week for a period of 8 weeks

Category

Treatment - Drugs

2**Description**

Control group receives 5cc normal saline intravenously at the end of hemodialysis 3 times a week for a period of 8 weeks

Category

Placebo

Recruitment centers**1****Recruitment center****Name of recruitment center**

hemodialysis center of Imam Khomeini general

Hospital
Full name of responsible person
Afshin Gholipour Baradari, MD- CCMF- Assistant
Professor
Street address
hemodialysis center of Imam Khomeini general
Hospital- amir st
City
Sari

Postal code
48175-866
Phone
+98 15132612458
Fax
+98 15 1326 2679
Email
amie_ei@yahoo.com
Web page address
www.mazums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Mazandaran University of Medical Sciences
Full name of responsible person
Ahmad Ali Enayati MD
Street address
Mazandaran University of Medical Sciences, Moallem
Square
City
Sari
Grant name
Grant code / Reference number
**Is the source of funding the same sponsor
organization/entity?**
Yes
Title of funding source
Mazandaran University of Medical Sciences
Proportion provided by this source
100
Public or private sector
empty
Domestic or foreign origin
empty
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
empty

Person responsible for general inquiries

Contact

Name of organization / entity
Mazandaran University Of Medical Sciences
Full name of responsible person
Amir Emami Zeidi
Position
MSc of Critical care nursing-Nurse of ICU
Other areas of specialty/work
Street address
Mazandaran University of Medical Sciences, Moallem
Square
City
Sari

Person responsible for scientific inquiries

Contact

Name of organization / entity
Mazandaran University Of Medical Sciences
Full name of responsible person
Fatemeh Espahbodi MD
Position
Nephrologist- Assistant Professor
Other areas of specialty/work
Street address
Mazandaran University of Medical Sciences, Moallem
Square
City
Sari
Postal code
48175-866
Phone
+98 15132612458
Fax
+98 15 1326 2679
Email
ftespahbodi@yahoo.com
Web page address
www.mazums.ac.ir

Person responsible for updating data

Contact

Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty
Study Protocol
empty
Statistical Analysis Plan
empty
Informed Consent Form
empty
Clinical Study Report
empty
Analytic Code
empty
Data Dictionary
empty